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Thereafter, please add the following new claims 29-34:

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--29. The method of claim 16, wherein the built structures include any of: buildings, roadway slabs, airport runways, and equipment supporting slabs.--

--30. A method for increasing the bearing capacity of foundation soils for built structures comprising:

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- providing a plurality of holes spaced from each other deep in the foundation soil;
 - providing an expandable substance with very fast expansion time and with a potential increase in volume of the expanded substance being at least five times the volume of the substance before expansion;
 - injecting into the soil, through said holes, said substance which expands as a consequence of a chemical reaction, the injection being performed continuously along rising columns;
 - producing compaction of the soil contiguous to each substance injection zone due to expansion of said substance injected into the foundation soil which forms, along said columns, tree-like shapes with irregular configuration including protrusions, bumps and projections produced by different resistance to compaction of the foundation soil and due to voids, interstices or fractures present under said structure and into the foundation soil; and
 - constantly monitoring level variations of the soil surface and/or built structure overlying the injection zone to detect a moment when the built structure and/or the soil surface, overlying said injection zone, begins to raise which is the moment when the compaction of the soil has reached levels generally higher than a required minimum value at which the soil lying below and around said injection zone withstands and rejects dynamic and static weights exerted thereon by said built structures and by overlying and adjacent soil masses.--
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Sub D1
--31. The method of claim 30, wherein said holes are provided in the foundation soil to have a direction selected to be any of a vertical direction and a direction forming an angle with respect to the vertical direction.--

--32. The method of claim 31, wherein the built structures include any of: buildings, roadway slabs, airport runways, and equipment supporting slabs.--

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~~--33. A method for increasing the bearing capacity of foundation soils for built structures comprising:~~

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- providing a plurality of holes spaced from each other deep in the foundation soil;
 - providing an expandable substance with very fast expansion time;
 - injecting into the soil, through said holes, said substance which expands as a consequence of a chemical reaction;
 - producing compaction of the soil contiguous to the substance injection zone through expansion of said substance injected into the foundation soil until the soil compaction reaches levels which are generally higher than a minimum compaction value required to provide a bearing capacity of the foundation soil suitable to withstand any dynamic and static weight exerted thereon by the built structures and by overlying and adjacent soil masses; and
 - determining attainment of said minimum compaction value required by constantly monitoring level variations of the soil surface and/or of the built structure overlying said injection zone to detect a moment when the built structure and/or the soil surface, overlying said injection zone, begins to raise, which is the moment when the soil lying below and around said injection zone withstands and rejects upwardly the dynamic and static weight exerted thereon by said built structures and overlying and adjacent soil masses.--

--34. The method of claim 33, wherein the built structures include any of: buildings, roadway slabs, airport runways, and equipment supporting slabs.--

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